



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. 1965/US/2	APPLN. NO. 10/666,654
	APPLICANT: John E. Litz	
	FILING DATE 09/17/2003	ART UNIT 1723

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
EGT	1.	3,723,308	03/27/1973	Breck	210	38	
EGT	2.	3,933,631	01/20/1976	Adams	210	34	
EGT	3.	4,695,387	09/22/1987	Berry et al.	210	676	
EGT	4.	4,800,024	01/24/1989	Elfline	210	665	
EGT	5.	5,556,545	09/17/1996	Volchek et al.	210	651	
EGT	6.	5,591,346	01/07/1997	Etzel et al.	210	668	
EGT	7.	5,679,256	10/21/1997	Rose	210	662	
EGT	8.	6,042,731	03/28/2000	Bonnin	210	679	
EGT	9.	6,531,063	03/11/2003	Rose	210	631	

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLISHED DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EGT	10.	Abdo et al., "A new technique for removing hexavalent chromium from waste water and energy generation via galvanic reduction with scrap iron", <i>Energy Conservation and Management</i> , Volume 39, No. 9, pp. 943-951, July 1998. (Abstract)
EGT	11.	Ames, L. L., "Zeolitic Removal of Ammonium Ions from Agricultural and Other Wastewaters", <i>13th Pacific Northwest Industrial Waste Conference, Washington State University</i> , pp. 135-152, 1967.
EGT	12.	Barrado et al., "Characterisation of solid residues obtained on removal of Cr from waste water", <i>Journal of Alloys and Compounds</i> , Volume 335, pp. 203-209, March 14, 2002. (Abstract)
EGT	13.	Bishop, D. F. et al., "Physical-Chemical Treatment of Municipal Wastewater", <i>Journal of Water Pollution Control Federation</i> , Vol. 44, No. 3, pp. 361-371, 1972.

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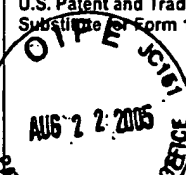
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EGT	14.	Çelik, M. S. et al., "Removal of Ammonia by Natural Clay Minerals Using Fixed and Fluidised Bed Column Reactors", <i>Water Science and Technology: Water Supply</i> , Vol. 1, No. 1, pp. 81-88, 2001.
EGT	15.	Chmielewska-Horváthová, E., "Use of Clinoptilolite in Ammonia Removal from Wastewater in and Outside Slovakia", <i>Mineralia Slovaca</i> , Vol. 27, No. 4, pp. 268-272, 1995.
EGT	16.	Chmielewska-Horváthová, E., "Advanced Wastewater Treatment Using Clinoptilolite", <i>Environment Protection Engineering</i> , Vol. 22, Issue 1-2, pp. 15-22, 1996.
EGT	17.	Cooney, E. L. et al., "Ammonia Removal from Wastewaters Using Natural Australian Zeolite. II Pilot-Scale Study Using Continuous Packed Column Process", <i>Separation Science and Technology</i> , Vol. 34, Issue 14, pp. 2741-2760, 1999.
EGT	18.	DOWEX RSC, "Radium Removal from Groundwater with DOWEX RSC Radium Selective Complexer Resin", <i>DOWEX Ion Exchange Resins</i> , http://www.dow.com/liquidseps , 2 pp., 2001.
EGT	19.	Fazullina et al., "Removal of chromium compounds in the process of coagulation treatment of wool industry dyeing-finishing plant waste water", <i>Soviet Journal of Water Chemistry and Technology</i> , Volume 10, No. 5, pp. 85-88, 1988. (Abstract)
EGT	20.	Hagiwara, Z. et al., "Ion-Exchange Reactions of Processed Zeolite and Its Application to the Removal of Ammonia-Nitrogen in Wastes", <i>Natural Zeolites: Occurrence, Properties, Use</i> , International Conference on the Occurrence, Properties, and Utilization of Natural Zeolites, Tucson, Arizona, Pergamon Press, pp. 463-470, 1978.
EGT	21.	Han, Ihn Sup, "Environmental engineering parameters affecting the removal of hexavalent chromium and nitroaromatic compounds from water by granular activated carbon", <i>Thesis</i> , 178 pages, 1999. (Abstract)
EGT	22.	Haralambous, A. et al., "The Use of Zeolite for Ammonium Uptake", <i>Water Science and Technology Journal</i> , Vol. 25, No. 1, (1992), pp. 139-145.
EGT	23.	Hayhurst, D. T., "The Potential Use of Natural Zeolites for Ammonia Removal During Coal-Gasification", <i>Natural Zeolites: Occurrence, Properties, Use</i> , International Conference on the Occurrence, Properties, and Utilization of Natural Zeolites, Tucson, Arizona, Pergamon Press, pp. 503-507, 1978.
EGT	24.	Jørgensen, S.E., "Ammonia Removal by Use of Clinoptilolite", <i>Water Research</i> , Vol. 10, pp. 213-224, 1976.
EGT	25.	Kalló, D., "Wastewater Purification in Hungary Using Natural Zeolites", <i>Natural Zeolites '93</i> , International Committee Natural Zeolites, Brockport, New York, pp. 341-350, 1993.
EGT	26.	Klieve, J. H. et al., "An Evaluation of Pretreated Natural Zeolites for Ammonium Removal", <i>Water Research - The Journal of the International Association on Water Pollution Research</i> , Vol. 14, No. 2, Pergamon Press, pp. 161-168, 1980.
EGT	27.	Koon, J. H. et al., "Optimization of Ammonia Removal by Ion Exchange Using Clinoptilolite", <i>SERL Report No. 71-5</i> , University of California, Berkeley, California, pp. 1-189, 1971.
EGT	28.	Koon, J. H. et al., "Ammonia Removal from Municipal Wastewaters by Ion Exchange", <i>Journal Water Pollution Control Federation</i> , Vol. 47, No. 3, pp. 448-465, 1975.
EGT	29.	Kutsy, V. G., "The Removal of Co; 2; +, Ni; 2; +, Cu; 2; +, Zn; 2; +, Mn; 2; +, Fe; 3; + and Cr; 6; + out of Water Solutions by Phosphates of Metals", <i>EKOTEKHNOLOGII I RESURSOSBEREZHENIE</i> , Part 1, pp. 42-45, 2002. (Abstract)
EGT	30.	Lin, et al., "The removal of hexavalent chromium from water by ferrous sulfate", <i>Hazardous and industrial wastes: Proceedings of the twenty-seventh Mid-Atlantic industrial waste conference</i> , Technomic Publishing Co., Inc., Lancaster, PA, 1995. (Abstract)
EGT	31.	McLaren, J. R. et al., "Factors Affecting Ammonia Removal by Clinoptilolite", <i>Journal of the Environmental Engineering Division, ASCE</i> , Vol. 1973, pp. 429-444, 1973.

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EGT	32.	Melitas et al., "Kinetics of soluble chromium removal from contaminated water by zero valent iron media: corrosion inhibition and passive oxide effects", <i>Environmental Science Technology</i> , Volume 35, No. 19, pp. 3948-3953, 2001. (Abstract)
EGT	33.	Mercer, B. W., "Clinoptilolite in Water-Pollution Control", <i>The Ore Bin</i> , Vol. 31 No. 11, pp. 209-213, 1969.
EGT	34.	Mercer, B. W., "Ammonia Removal from Secondary Effluents by Selective Ion Exchange", <i>Journal Water Pollution Control Federation</i> , Vol. 42, No. 2, pp. R95-R107, 1970.
EGT	35.	Philipot et al., "Hexavalent Chromium Removal from Drinking Water", <i>Water Science and Technology</i> , Volume 17, No. 6/7, pp. 1121-1132, 1985. (Abstract)
EGT	36.	Sarre et al., "Chromium removal in water by modified cellulose", <i>Journal of Water Science</i> , Volume 1, No. 1-2, pp. 55-71, 1988. (Abstract)
EGT	37.	Semmens, M. J. et al., "Biological Regeneration of Ammonium-Saturated Clinoptilolite. II The Mechanism of Regeneration and Influence of Salt Concentration", <i>Environmental Science & Technology</i> , Vol. 11, pp. 260-265, 1977.
EGT	38.	Semmens, M. J. et al. "Nitrogen Removal by Ion Exchange: Biological Regeneration of Clinoptilolite", <i>Journal of the Water Pollution Control Federation</i> , Vol. 49, No. 12, pp. 2431-2444, 1977.
EGT	39.	Semmens, M. J. et al., "Clinoptilolite Column Ammonia Removal Model", <i>Journal of the Environmental Engineering Division, Proceedings of the American Society of Civil Engineers</i> , Vol. 104, No. EE2, pp. 231-244, 1978.
EGT	40.	Semmens, M. J. et al., "The Regeneration of Clinoptilolite by Biologically Restored Brine", <i>University of Illinois, Water Resources Center, Research Report No. 139</i> , pp. 1-1 through C-10, 1979.
EGT	41.	Semmens, M. J. et al., "Ammonium Removal by Ion Exchange: Using Biologically Restored Regenerant", <i>Journal of Water Pollution Control Federation</i> , Vol. 51, Issue 12, (December 1979), pp. 2928-2940.
EGT	42.	Semmens, M. J., "Ammonium Removal by Clinoptilolite Using Biologically Assisted Regeneration", <i>5th International Conference on Zeolites</i> , Naples, Florida, pp. 795-804, 1980.
EGT	43.	Slechta, A. F. et al., "Water Reclamation Studies at th South Lake Tahoe Public Utility District", <i>Journal of the Water Pollution Control Federation</i> , Vol. 39, pp. 787-814, 1967.
EGT	44.	Smith, S. A. et al., "Tahoe-Truckee Water Reclamation Plant. First Year Review", <i>Water Reuse Symposium</i> , Vol. 2, pp. 1435-1445, 1979.
EGT	45.	Svetich, Richard, "Long-Term Use of Clinoptilolite in the Treatment of Sewage at Tahoe-Truckee Sanitation Agency, Truckee, California", <i>Natural Zeolites: Occurrence, Properties, Use</i> , International Conference on the Occurrence, Properties, and Utilization of Natural Zeolites, Red Lion Hotel-Riverside, Boise, Idaho pp. 197-201, 1993.
EGT	46.	Townsend, R. P. et al., "Ion Exchange Properties of Natural Clinoptilolite, Ferrierite and Mordenite: 1. Sodium-Ammonium Equilibria", <i>Zeolites</i> , Vol. 4, No. 2, pp. 191-195, 1984.
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

PTO/SB/08a (08-03) U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Subtitle Form 1449A/PTO 	INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		APPLICATION NO.: 10/666,654	FILING DATE: September 17, 2003
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			EXAMINER NAME: Not Yet Assigned	ATTY. DOCKET NO.: 1965/US/2

U.S. PATENT DOCUMENTS

EXAMINER INITIALS*	Cite No. ¹	PATENT NUMBER	ISSUE DATE	Name of Patentee of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)	MM-DD-YYYY		
EGT	1.	5,575,919	11/1996	Santina	
EGT	2.	6,753,186	06/2004	Moskoff	

U.S. PUBLICATION DOCUMENTS

EXAMINER INITIALS*	Cite No. ¹	PUBLICATION NUMBER	PUBLICATION DATE	Name of Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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EXAMINER INITIALS*	Cite No. ¹	DOCUMENT NUMBER	PUBLICATION DATE	Name of PATENTEE or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIALS*	Cite No. ²	Include name of Author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ³

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		Number - Kind Code* (if known)	MM-DD-YYYY		
EGT	1.	4,765,779	08/1988	Organ	
EGT	2.	5,512,178	04/1996	Dempo	
EGT	3.	5,711,015	01/1998	Tofe	
EGT	4.	6,663,781	12/2003	Huling et al.	

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EGT	5.	2003/0132155	07/2003	Litz et al.	

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